

**Emergency Response Personnel Automated Accountability System**

**ABSTRACT**

5           An emergency response personnel automated accountability system, also referred  
to as a Firefighter Automated Accountability System (FAAS), is provided that supports  
automatic tracking of and limited communications among first responders including fire,  
police, emergency medical service, and safety personnel. The FAAS increases situational  
awareness and safety of first responder personnel by automatically providing position  
10 information as well as other sensor information. Components of the FAAS integrate  
wireless mesh networks with positioning and communication systems to support real-  
time tracking of and communications with emergency response personnel. The FAAS  
incident awareness system provides position and time information via Global Positioning  
System (GPS) and/or other positioning systems, and processed data from sensors to  
15 provide enhanced communications, command and control capabilities to the first  
responders and incident command at the incident scene.